PATENT COOPERATION TREATY



From the INTERNATIONAL SEARCHING AUTH	ORITY		WIPO	POL		
To: JAMES M. OLSEN CONNOLLY BOVE LODGE & HUTZ LLP THE NEMOURS BUILDING - 8TH FLOOR 1007 NORTH ORANGE STREET; P.O. BOX 2207 WILMINGTON, DE 19899		PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY				
		(PCT Rule 43bis.1)				
		Date of mailing (day/month/year) 0.8 MAR 2006				
Applicant's or agent's file reference		FOR FURTHER ACTION See paragraph 2 below				
131*355 International application No.	International filing date	(day/month/year)	Priority date (day/month/year)			
			15 January 2004 (15.01.2004)	1		
PCT/US05/01427 International Patent Classification (IPC)	14 January 2005 (14.0 or both national classific					
IPC(7): G02B 6/30 and US Cl.: 385/49			•			
Applicant		_				
UNIVERSITY OF DELAWARE						
1. This opinion contains indications re	lating to the following it	ems:				
Box No. I Basis of the opinion						
Box No. II Priority						
1	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
	Lack of unity of invention					
Roy No. V Reasoned	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
	cuments cited					
Box No. VII Certain de	Certain defects in the international application					
	Certain observations on the international application					
2. FURTHER ACTION						
If a demand for international preli	ing Authority ("IPEA") the IPEA and the chose	except that this does in IPEA has notified th	be considered to be a written opinion of the solution of the s	21.4		
TDC 4large apply together u	here appropriate, with before the expiration of	amendments, before I	PEA, the applicant is invited to submit to the expiration of 3 months from the date iority date, whichever expires later.	he of		
3. For further details, see notes to Fo	orm PCT/ISA/220.		./			
Name and mailing address of the ISA/ Mail Stop PCT, Aun: ISA/US	US Date of com	pletion of this	Authorized officer Brian M. Healy	ila		

14 December 2005 (14.12.2005)

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Form PCT/ISA/237 (cover sheet) (April 2005)

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application	No.
PCT/US05/01427	

Box N	o. I Basis of this opinion					
1. With	1. With regard to the language, this opinion has been established on the basis of:					
	the international application in the language in which it was filed					
	a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).					
2. With claim	2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:					
a.	type of material					
	a sequence listing					
	table(s) related to the sequence listing					
b.	format of material					
	on paper					
	in electronic form					
	м					
c.	time of filing/furnishing					
	contained in the international application as filed.					
	filed together with the international application in electronic form.					
	furnished subsequently to this Authority for the purposes of search.					
	turnament subsequently to this Authority for the purposes of search.					
3	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.					
4. Additi	ional comments:					
	•					
orm PCT	/ISA/237(Box No. 1) (April 2005)					

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US05/01427

applicability; citations and expl	anations suppo	orting such statement	
	Ol-i	<u>-</u>	
Novelty (N)	Claims Claims		
	Claims	NOINE	No
Inventive step (IS)	Claims	1-10	YES
	Claims	NONE	NO
Industrial applicability (IA)	Claims	110	VEC
**************************************		NONE	YES
2. Citations and explanations:			
side portion forming a termination point wher optical fiber reflects from the tapered portion silicon-on-insulator waveguide. These limitatic U.S.P. No. 6,611,636 which teaches (Fig.55) a taped coupler 5110,5106 to a silicon-on-insulate teach claimed structural limitations which are include limitations similar to that of claim 1. I claims 1 and 6 along with other additional limic Claims 1-10 has in	and is incident ons are recited an optical coup lator structure not to be found Dependent clair litations (See th	upon the termination point equal in claim 1. Typical of the prior apler device that couples a light be 102,103,104,106, however, the the Deliwala 636' reference.	Is a mode angle of the art references is Deliwala, eam 5120 that couples into limitations of claims 1 Independent claim 6

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